

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A disk drive comprising:
a disk medium adapted for perpendicular magnetic recording;
a read head constructed and arranged to read a perpendicular magnetic recorded data signal from the disk medium;
a preamplifier circuit including a read amplifier constructed and arranged to amplify a read signal output from the read head, and an adjusting circuit constructed and arranged to adjust a low cut-off frequency of the signal output from the read amplifier, the adjusting circuit including a programmable filter configured to set the low cut-off frequency of the recording frequency of the disk medium and to remove frequencies in the amplified signal lower than the cut-off frequency; and
a data channel constructed and arranged to reproduce data from the read signal output from the preamplifier circuit.
2. (Cancelled).
3. (Previously Presented) The disk drive according to claim 1, wherein the adjusting circuit comprises a filter circuit constructed and arranged to adjust the low cut-off frequency to 50 kHz or less or in the range of from 1/2000 or less of the maximum recording frequency of the disk medium to a DC level.
- 4-7. (Cancelled).
8. (Currently Amended) A preamplifier device for a disk drive including a disk medium adapted for perpendicular magnetic recording and a read head constructed and arranged to read data signal from the disk medium, said preamplifier device comprising:
a read amplifier constructed and arranged to amplify a read signal output from the read head; and
an adjusting circuit constructed and arranged to adjust a low cut-off frequency of a read signal output from the read amplifier, the adjusting circuit including a programmable

filter configured to set the low cut-off frequency of the recording frequency of the disk medium and to remove frequencies in the amplified signal lower than the low cut-off frequency.

9. (Previously Presented) The preamplifier device according to claim 8, further comprising:

a circuit constructed and arranged to send the read signal output from the adjusting circuit to a data channel included in the disk drive, the data channel being constructed and arranged to restore perpendicular magnetic recorded data onto the disk medium.

10. (Previously Presented) The preamplifier device according to claim 8, wherein the adjusting circuit comprises a filter circuit constructed and arranged to adjust the low cut-off frequency to 50 kHz or less or in the range of from 1/2000 or less of the maximum recording frequency of the disk medium to a DC level.

11.-22. (Cancelled).

23. (Previously Presented) The disk drive according to claim 1, wherein the adjusting circuit is constructed and arranged to adjust the low cut-off frequency such that waveform deformation of the read signal is reduced.

24. (Previously Presented) The preamplifier device according to claim 8, wherein the adjusting circuit is constructed and arranged to adjust the low cut-off frequency such that waveform deformation of the read signal is reduced.